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7590	11/17/2004		EXAMINER	
WAGNER, MURABITO & HAO LLP			WANG, JIN CHENG	
Third Floor			ART UNIT	PAPER NUMBER
Two North Market Street				2672
San Jose, CA 95113				

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/724,197	GETTEMY ET AL.
Examiner	Art Unit	
Jin-Cheng Wang	2672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 09 August 2004.
- 2a) This action is FINAL.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-23 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

### **Response to Amendment**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/09/2004 has been entered. Claims 1-23 are pending in the application.

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuzaki et al. U.S. Pat. No. 6,140,992 (hereinafter Matsuzaki), in view of Kim et al. U.S. Patent No. 5,355,443 (hereinafter Kim) and Singla et al. U.S. Patent No. 6,597,373 (hereinafter Singla).

3. Claim 1:

(1) Matsuzaki teaches a display unit (e.g., figures 1-2) comprising:

a display panel comprising a pixel matrix comprising: an (m \* n) pixel display memory window region; and an x pixel border region for only displaying a display attribute (e.g., figures

6-7B), wherein said border region surrounds said display memory window region (e.g., figures 6-7B; column 5, lines 25-60);

a memory for containing image data for generating an image within said display memory window region (figures 6-7B; column 5, lines 25-60);

a display controller (e.g., the display control circuit, SVGA 21 of figure 3) coupled to said memory (e.g., VRAM 22), coupled to receive said display attribute from said border attribute register (e.g., the border producing circuit or registers of figures 1-3; column 5, lines 5-60; column 7, lines 10-65), and coupled to control said display panel (figures 1-7B; column 5, lines 5-60), said display controller for generating a first set of signals (i.e., pixel data) for rendering said image within said display memory window region and for generating a second set of signals (i.e., border pixel data) for display said display attribute within said border region (e.g., column 3, lines 6-25; column 7, lines 5-67; column 8, lines 1-35; column 13, lines 48-60).

(2) However, it is not clear whether Matsuzaki implicitly teaches a frame buffer. It is also not clear whether Matsuzaki teaches a display attribute being selected to provide viewing contrast with image data located near the border region.

(3) Kim teaches implicitly a frame buffer (*See Kim column 8, lines 55-67*). Furthermore, Singla teaches a display attribute being selected to provide viewing contrast with image data located near the border region (e.g., *Singla column 3, lines 28-50; column 5, lines 45-60*).

(4) It would have been obvious to one of ordinary skill in the art to have incorporated the Kim's frame buffer and Singla's border region attribute setting method into Matsuzaki's display unit because Matsuzaki teaches a VRAM for storing image data (*Matsuzaki column 2, lines 10-15*) and a graphics control circuit fetching pixel data from VRAM 22 (*Matsuzaki figures 1-3*;

*column 6, lines 3-65) while Kim teaches a VRAM corresponds to a frame buffer memory (region). Moreover, Matsuzaki teaches selecting/switching one of the display formats including resolutions (Matsuzaki column 2); setting the format of the binary border pixel data in color values for the border pixels to be different from those for pixels within the effective display region (Matsuzaki column 3 and 6-7) and the format of the synthesized pixel data in the border section produced as 8-bit parallel data by the border producing circuit 25 synthesized with the pixel data from the binarizing half tone processing circuit 26 by the synthesizing circuit 27 (Matsuzaki column 3, 6-7) and therefore the claimed limitation suggests an obvious modification of Matsuzaki.*

(5) One having the ordinary skill in the art would have been motivated to incorporate the frame buffer of Kim because Kim teaches that the video frame buffer memory is constructed from VRAM (See Kim column 8, lines 55-67). One of the ordinary skill in the art would have been motivated to incorporate Singla's border region attribute setting method because Singla teaches a set of registers associated with a timing generator programmed to a particular attribute including resolution (selectable resolution; Singla the Abstract column 5) and Singla further teaches border data set by a solid single-color surrounding the frame buffer image (changeable color; Singla column 8) and a display controller for user-selectable overriding of the predetermined border scheme to provide viewing contrast between the border region and the frame buffer region (changeable attributes; e.g., Singla the Abstract and column 10).

4. Claim 2-4, 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuzaki et al. U.S. Pat. No. 6,140,992 (hereinafter Matsuzaki), in view of Kim et al. U.S. Patent No.

5,355,443 (hereinafter Kim), Hannah U.S. Patent No. 5,038,297 (hereinafter Hannah) and Yuri et al. U.S. Patent No. 5,805,149 (hereinafter Yuri), further in view of Ogawa et al. U.S. Patent No. 6,018,331 (hereinafter Ogawa) and Singla et al. U.S. Patent No. 6,597,373 (hereinafter Singla).

5. Claim 2-4, 7, 8:

(1) The claim 2-4, 7,8 encompasses the same scope of invention as that of claim 1 except additional claimed limitation of (1) the second set of signals being generated within invalid timing windows with respect to the frame buffer region; (2) a first portion of the second set of signals being generated x clock cycles before valid data for the frame buffer region commences and a second portion of the second set of signals being generated in an invalid horizontal timing window that ends x clock cycles after valid data for the frame buffer region; (3) a third portion of the second set of signals being generated in an invalid vertical timing window that commences x horizontal pulses before a first valid horizontal line commences of a frame and a forth portion of the second set of signals being generated in an invalid vertical timing window that ends x horizontal pulses after the end of the last valid horizontal line of the frame; (4) x being equal 2; (5) the frame buffer region comprising 160 rows and 160 columns of pixels.

As shown in the rejection of claim 1, Matsuzaki/Kim/Hannah/Singla teaches the claimed invention of a display unit.

(2) However, it remains to be shown that Matsuzaki/Kim/Hannah/Singla implicitly teaches the additional claimed limitation as recited in claims 2-4.

(3) Singla, Ogawa and Yuri teaches the additional claimed limitation as recited in claims 2-4. Namely, Singla, Ogawa and Yuri teach the claimed limitation of (1) the second set of signals being generated within invalid timing windows with respect to the frame buffer region (Singla

figures 2-5; Ogawa column 5, lines 4-67; column 6, lines 1-67; Ogawa figures 7-9; Yuri figure 7; *Ogawa teaches in Figures 7-9 frame writing intervals which correspond to the invalid timing intervals for generating the border frames*); (2) a first portion of the second set of signals being generated x clock cycles before valid data for the frame buffer region commences and a second portion of the second set of signals being generated in an invalid horizontal timing window that ends x clock cycles after valid data for the frame buffer region (Singla figures 2-5; Ogawa column 5, lines 4-67; column 6, lines 1-67; Ogawa figures 7-9; Yuri figure 7; *Ogawa teaches in Figures 7-9 a first portion of the frame writing interval x clock cycles before the image writing interval and a second portion of the frame writing interval x clock cycles after the image writing interval*); (3) a third portion of the second set of signals being generated in an invalid vertical timing window that commences x horizontal pulses before a first valid horizontal line commences of a frame and a forth portion of the second set of signals being generated in an invalid vertical timing window that ends x horizontal pulses after the end of the last valid horizontal line of the frame (Singla figures 2-5; Ogawa column 5, lines 4-67; column 6, lines 1-67; Ogawa figures 7-9); 4) x being equal 2 (Ogawa figure 7; Singla figure 2; Yuri figure 7; *Ogawa teaches in Figures 7-9 a third portion of the frame writing interval x clock cycles before the image writing interval and a third portion of the frame writing interval x clock cycles after the image writing interval*); (5) the frame buffer region comprising 160 rows and 160 columns of pixels (Ogawa figure 7; Singla figure 2; Yuri figure 7).

(4) It would have been obvious to one of ordinary skill in the art to have incorporated Singla, Ogawa and Yuri's timing generator into Matsuzaki/Kim/Hannah/Yuri/Singla's display device because Matsuzaki suggests partial rewrite driving using display start line address, the

number of continuous display lines, the total number of lines, the total number of pixels, and the border region to the line address producing circuit, thereby obtaining partial display information (Matsuzaki column 8, lines 1-67). Matsuzaki discloses a plurality of display formats for the effective display region (Matsuzaki column 8, lines 1-67). Therefore the claimed limitation suggests an obvious modification of Matsuzaki/Kim/Hannah/Yuri/Singla.

(5) One having the ordinary skill in the art would have been motivated to do this because Ogawa teaches timing chart for the horizontal/vertical timing intervals to generate the timing signals so that the input image signal is displayed in the center and its periphery is made a frame, the drive of picture elements corresponding to the frame can be carried out during the horizontal/vertical blanking intervals (Ogawa column 5, lines 4-67; column 6, lines 1-67; Yuri figure 7).

6. Claim 5, 6, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuzaki et al. U.S. Pat. No. 6,140,992 (hereinafter Matsuzaki), in view of Kim et al. U.S. Patent No. 5,355,443 (hereinafter Kim) and Hannah U.S. Patent No. 5,038,297 (hereinafter Hannah); Yuri et al. U.S. Patent No. 5,805,149 (hereinafter Yuri) and Singla et al. U.S. Patent No. 6,597,373 (hereinafter Singla).

Claim 5:

The claim 5 encompasses the same scope of invention as that of claim 1 except additional claimed limitation of the display attribute of the border region comprising a color attribute and an intensity attribute. However, Matsuzaki further discloses the claimed limitation of the display

attribute of the border region comprising a color attribute and an intensity attribute (e.g., Matsuzaki figures 6-8).

Claim 6:

The claim 6 encompasses the same scope of invention as that of claim 1 except additional claimed limitation of the display panel being a thin film transistor liquid crystal display panel. However, Matsuzaki further discloses the claimed limitation of the display panel being a thin film transistor liquid crystal display panel (e.g., Matsuzaki column 1, lines 20-60; column 5, lines 1-25).

Claim 9:

The claim 9 encompasses the same scope of invention as that of claim 1 except additional claimed limitation of background display attribute register. Matsuzaki further discloses the claimed limitation of background display attribute register (e.g., Matsuzaki figures 6-8).

7. Claims 10-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuzaki et al. U.S. Pat. No. 6,140,992 (hereinafter Matsuzaki), in view of in view of Kim et al. U.S. Patent No. 5,355,443 (hereafter Kim) and Hannah U.S. Patent No. 5,038,297 (Hannah), further in view of Ogawa et al. U.S. Patent No. 6,018,331 (hereafter Ogawa) and Singla et al. U.S. Patent No. 6,597,373 (hereinafter Singla).

8. Claim 10:

The claim 10 encompasses the same scope of invention as that of claims 1 and 2. The claim 10 is rejected for the same reasons set forth in claims 1 and 2.

Claims 11-12:

The claim 11, or 12 encompasses the same scope of invention as that of claims 1-4. The claim 11 is rejected for the same reasons set forth in claims 1-4.

Claim 13:

The claim 13 encompasses the same scope of invention as that of claims 1-5. The claim 13 is rejected for the same reasons set forth in claims 1-5.

Claim 14:

The claim 14 encompasses the same scope of invention as that of claims 1-6. The claim 14 is rejected for the same reasons set forth in claims 1-6.

Claim 15:

The claim 15 encompasses the same scope of invention as that of claims 1-7. The claim 15 is rejected for the same reasons set forth in claims 1-7.

Claim 16:

The claim 16 encompasses the same scope of invention as that of claims 1-8. The claim 16 is rejected for the same reasons set forth in claims 1-8.

Claim 17:

The claim 17 encompasses the same scope of invention as that of claims 1-9. The claim 16 is rejected for the same reasons set forth in claims 1-9.

9. Claims 18-23 are rejected under 35 U.S.C. 103(a) as being as being unpatentable over Matsuzaki et al. U.S. Pat. No. 6,140,992 (hereinafter Matsuzaki), in view of in view of Kim et al. U.S. Patent No. 5,355,443 (hereinafter Kim) and Hannah U.S. Patent No. 5,038,297 (hereinafter Hannah) and Yuri et al. U.S. Patent No. 5,805,149 (hereinafter Yuri), further in view of Ogawa et al. U.S. Patent No. 6,018,331 (hereafter Ogawa) and Singla et al. U.S. Patent No. 6,597,373 (hereinafter Singla) and He et al. U.S. Patent No. 6,323,849 (He).

Claims 18-23:

The claim 18-23 encompasses the same scope of invention as that of claims 1-9 except additional claimed limitation of a portable electronic device. However, He/Yuri further discloses the additional claimed limitation of a portable electronic device (He column 1, lines 20-35; Yuki column 14, lines 1-15).

*Remarks*

10. Applicant's arguments, filed 08/09/2004, have been fully considered but they are not deemed to be persuasive.

11. Applicant argues in essence with respect to the Claim 1 and similar claims that:

(A) "Applicants respectfully note that the prior art reference, Matsuzaki et al., does not comprise nor suggest a controllable pixel border region that provides viewing contrast.

The Matsuzaki et al. reference discloses a display control system for controlling the display format to be displayed by a display apparatus. As such, the Matsuzaki et al. reference discloses a border section that displays border pixel data to frame a display

image frame. However, Applicants respectfully point out the Matsuzaki et al. reference does not comprise or suggest a pixel border region displaying a display attribute that is selected to provide viewing contrast with images and/or characters near the border region, as in embodiments of the present invention as claimed in independent Claims 1, 10, and 18."

In response to the arguments in (A), Matsuzaki teaches selecting/switching one of the display formats including the resolution associated with the frame buffer region (Matsuzaki column 2); setting the format of the binary border pixel data in color values different from those from the pixels within the effective display region (to provide viewing contrast; see Matsuzaki column 3 and 6-7) because the border pixel data is independent from the pixel data in the frame buffer region (Figs. 7A and 7B) and the separate border producing circuit produces pixel data of a border section in the FLCD display image frame. The border region comprises a set of the pixels wherein the color of a border pixel is not necessarily identical to the color of a pixel within the frame buffer region. Therefore, the color values for border pixel data are different from those for pixels within the effective display region. Moreover, the border pixel data are further synthesized as the format of the synthesized pixel data in the border section produced as 8-bit parallel data by the border producing circuit 25 synthesized with the pixel data from the binarizing half tone processing circuit 26 by the synthesizing circuit 27 (Matsuzaki column 3, 6-7). Even if the color of border pixels are uniformly the same as the color of the pixels within the frame buffer region, the synthesis of the border pixel data provides a different color for the border pixels than the pixels within the frame buffer region. Matsuzaki at least suggests a pixel border region displaying a display attribute (e.g., a color value of the border pixels) that is selected to provide

viewing contrast (because the color for the border region surrounding the frame buffer region has been changed in the synthesis step or controlled by the display controller, the viewing contrast has been altered with respect to the pixels within the frame buffer region) with images and/or characters (images and/or characters in the frame buffer region) near the border region.

Applicant argues that the synthesizing process is to serialize the border pixel data and the pixel data from the binarizing half tone processing circuit. However, Matsuzaki teaches the border pixel data produced by the border producing circuit 25 is serially synthesized with the pixel data from the binarizing half tone processing circuit 26 by a synthesizing circuit 27. Note that serially synthesizing is a different concept from the serializing as pointed out by applicant.

12. Applicant argues in essence with respect to the Claim 1 and similar claims that:

(B) "Applicants agree that the Singla et al. reference discloses a solid single-color border surrounding the image in column 8. That is, the border consists of a solid single-color that is static and unchangeable from image to image. However, Applicants respectfully assert that the Singla et al. reference does not teach the claim limitation of a pixel border region displaying a display attribute (color) that is selected to provide viewing contrast with images and/or characters near the border region, as stated in the present Office Action. Instead, Applicants assert that the predetermined border scheme, by user override, is adjusted for user preferences. That is, the border scheme can be adjusted for the user to select a static color for the border region, according to the 'user preferences.' Thus, Applicants respectfully assert that the selectable color as determined by the 'user

preferences' does not provide viewing contrast between the border and the image data located near the border region, as recited in independent Claims 1, 10, and 18."

In response to the arguments in (B), Singla teaches a display attribute being selected to provide viewing contrast with image data located near the border region (e.g., column 3, lines 28-50) wherein a solid color is selected to provide a viewing contrast between the border region and the frame buffer region (i.e., setting the color for the border region). Singla teaches a border region attribute setting method in which a set of registers associated with a timing generator is programmed to a particular attribute including resolution (selectable resolution; Singla the Abstract column 5), which is applicable to a selectable color. Singla further teaches border data set by a solid single-color surrounding the frame buffer image (changeable color; Singla column 8) and a display controller for user-selectable overriding of the predetermined border scheme (changeable attributes; e.g., Singla the Abstract and column 10). Therefore, Singla teaches the claim limitation of a pixel border region displaying a display attribute (such a resolution and color settable by the programmable registers) that is selected (selectable color and resolution) to provide viewing contrast (viewing contrast to the frame buffer area is changed because the display attributes surrounding the frame buffer area has been changed due to the controllable color and resolution of the border area) with images and/or characters near the border region. The color and resolution change of the border area provides the viewing contrast between the border region and the frame buffer region in the display.

13. Applicant argues in essence with respect to the Claims 2-4 and 11-12 and similar claims that:

(C) "In particular, each of the prior art references, Singla et al., Ogawa, and Yuki et al. disclose the generation of a second set of signals within blanking timing windows, etc. for display within a frame buffer region that is designated as a border to an image."

In response to the arguments in (C), Ogawa teaches in Figures 7-9 a first portion of the frame writing interval x clock cycles before the image writing interval and a second portion of the frame writing interval x clock cycles after the image writing interval. Ogawa teaches the image writing interval at which time the frame buffer region image data is written and the frame writing interval at which time the border region image data is written. It is clear from Ogawa that the border data and frame buffer region are written in different time intervals. Applicant argues that the border data is generated for display within the frame buffer region. In response, the border data are separated from the frame buffer image data and are generated for display during different time intervals.

14. Applicant argues in essence with respect to the Claims 19-20 and similar claims that:

(D) "Singla et al., Ogawa, and Yuki et al., do not teach, suggest, or disclose a second set of signals being generated within video timing windows that contain invalid data of a first set of signals used for rendering character images within a frame buffer region, wherein the second set of signals are for displaying a display attribute that provides viewing

contrast in a border region that is separate from the frame buffer region, as is disclosed in embodiments of the present invention of dependent Claims 19 and 20."

In response to the arguments in (D), Ogawa teaches in Figures 7-9 a first portion of the frame writing interval x clock cycles before the image writing interval and a second portion of the frame writing interval x clock cycles after the image writing interval. Ogawa teaches the image writing interval at which time the frame buffer region image data is written and the frame writing interval at which time the border region image data is written. It is clear from Ogawa that the border data and frame buffer region are written in different time intervals. Applicant argues that the border data is generated for display within the frame buffer region. In response, the border data are separated from the frame buffer image data and are generated for display during different time intervals. Moreover, Ogawa teaches in Figures 7-9 a first portion of the frame writing interval x clock cycles before the image writing interval and a second portion of the frame writing interval x clock cycles after the image writing interval.

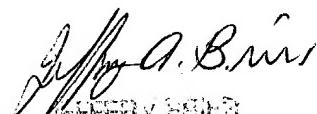
### *Conclusion*

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jin-Cheng Wang whose telephone number is (703) 605-1213. The examiner can normally be reached on 8:00 - 6:30 (Mon-Thu).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on (703) 305-4713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jcw



JEFFREY A. BAIER  
PRIMARY EXAMINER